



Research on the Reform of Governance System of Higher Vocational Colleges Under the Background of Modern Information Technology

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Abstract. Modern information technology promotes the reform of governance mode in higher vocational colleges, promotes the scientificity and accuracy of decision-making, and realizes the reasonable allocation of campus resources. At the same time, promoting management with modern information technology is the need for the development of higher vocational colleges. To promote the informatization of governance in higher vocational colleges, we need to improve the informatization construction mechanism, build a shared informatization system, rationally set up the management process of higher vocational colleges, improve the information skills of faculty and staff, and strengthen online moral education.

Keywords: Modern information technology · Governance of higher vocational colleges · Reform

Today's society has stepped into the information society, human production, life, thinking, learning methods have been greatly affected, the global education development has been deeply marked by information technology, information technology is not only changing the present education, but also shaping the future of education. The governance of future education must be modernized governance relying on information technology. The full use of information technology to strengthen the governance of higher vocational colleges, promote the construction of an intelligent level of governance, and build a smart campus are also important signs of the modernization of vocational education. Applying information technology to assist the administrative management of higher vocational colleges, building an information platform, incorporating the main processes and key links of the school's human, financial, material, and affair management work into the information management system, achieving informatization and intelligent management of school work, and promoting Information transmission is more direct and rapid, ensuring the accuracy and timeliness of information, saving time and cost of doing things, breaking traditional departmental boundaries and geographical restrictions, making hierarchical organizations more flattened, and coordinating management between departments more

closely Seamless and clearer implementation of responsibilities, thus providing important technical support for the construction of advanced, scientific, and efficient higher vocational college governance [1].

1 The Influence of Modern Information Technology on the Management of Higher Vocational Colleges

1.1 Promote the Reform of Governance in Higher Vocational College

Information technology has entered the management system of higher vocational colleges, which has changed the school's management mode, management thought and management system. Using artificial intelligence technology to change the organizational structure and management system, optimize the operation mechanism and service mode, and realize the campus fine management and personalized service, can comprehensively improve the school governance level. For the problems faced by higher vocational college governance, such as unclear departmental responsibilities, asymmetry of individual rights and responsibilities, unclear resource management background, and unimplemented assessment management system, information construction can provide a solution path with the least resistance. Through data support, development and sharing, resource integration, interconnection and other capabilities, schools are encouraged to establish a shared, open and transparent governance environment. Through modern information technology, the different governance bodies of higher vocational colleges can be clearly defined in the division of responsibilities and powers, and effectively solve the problems of absence and offside in the traditional education administration process. Through the reorganization of the process, the role of each subject can be brought into full play.

1.2 Promote the Scientificity and Accuracy of Decision-Making

With the introduction of information technology, the importance of data in management becomes more prominent. Using data to find, analyze and solve problems, with the help of data reporting, online analysis and processing, benchmark analysis, data mining, etc., is conducive to the scientificity and accuracy of decision-making. With the advent of the information age, the emergence of rich and varied learning platforms, interactive software and other data collection software provides an effective way for higher vocational colleges to make scientific decisions. When making relevant decisions, leaders can analyze the data in the network information system, so as to make more scientific and advanced decisions. Through the deep mining of the massive data produced by higher vocational colleges, the decision-making mode of higher vocational colleges will change from the traditional empirical management to the scientific and precise decision-making mode driven by data [2].

1.3 Realize the Reasonable Allocation of Campus Resources

The traditional mode of management and resource allocation in higher vocational colleges requires a large amount of human resources and takes up much time and energy,

which greatly hinders the improvement of the efficiency of education management. Modern network information management technology can change the traditional management mode and resource allocation mode of higher vocational colleges, and can more effectively allocate management resources and human resources in higher vocational colleges. In the management of higher vocational colleges and in the process of implementing network information processing, the internet can quickly and conveniently distribute all its resources rationally, effectively saving the time and manpower wasted in the resource allocation of all departments and levels, and greatly improving the work efficiency [3].

2 Promoting Governance with Modern Information Technology is the Need of Higher Vocational Colleges' Own Development

2.1 The Modernization of National Governance System Requires the Informatization of Governance Means in Higher Vocational Colleges

National policies and systems restrict the development of vocational education. At the same time, the reform of vocational education must adapt to the requirements of the country's major policies. Since the 18th National Congress of the Communist Party of China (CPC), the CPC Central Committee has continuously improved its governance through a series of major institutional arrangements and institutional reform and innovation. The 19th CPC National Congress once again stressed the need to continuously modernize China's governance system and capacity. In 2016, the "13th Five-Year Plan for Educational Informatization" issued by the Ministry of Education proposed to "enhance the modernization level of education governance system and governance ability, form an education information system that is compatible with the development goal of education modernization, and give full play to the revolutionary impact of information technology on education." "Promote the implementation of the Code for the Construction of Vocational Colleges' Digital Campus, and ensure that schools of all levels and types generally have an information-based teaching environment". In 2017, Du Zhanyuan, Vice Minister of Education, pointed out in the first "Education Think Tank and Education Governance Roundtable Forum of 50 People" that education informatization 2.0 under the "Internet+" environment should be promoted to promote the transformation of education informatization from integrated application to innovative development. In 2018, Lei Chaozi, director of the Department of Science and Technology of the Ministry of Education, pointed out the need to explore a new model of education governance in the information age. This series of policies and systems related to governance provide a policy and institutional environment for the informatization governance of higher vocational colleges.

2.2 The Development of the Scale of Higher Vocational Colleges Needs Information Management

With the country's strong support for vocational education, the number of vocational schools and the number of people receiving vocational education has also increased

sharply. According to the Statistics Communique on the Development of National Education in 2019, there are 1,265 undergraduate colleges and 1,423 higher vocational colleges (junior colleges). Higher vocational colleges have become an important part of higher education. In 2019, the Government Work Report proposed that higher vocational colleges increase enrollment by 1 million, and in 2020, the Government Work Report further proposed that higher vocational colleges increase enrollment by 2 million. This is a major measure to stabilize employment and promote development. For higher vocational colleges, it is not only an opportunity for development, but also a challenge to governance ability. The expansion of the scale of students in the school, the structure of the source of students presents multi-layered and complicated, the starting level of students' learning is uneven, and the diversification of learning needs, etc., have increased the difficulty of teaching governance. The use of modern information technology can continuously optimize the policy implementation environment, integrate policy implementation resources, form a policy implementation force, and improve policy implementation efficiency.

2.3 The Management of Modern Higher Vocational Colleges Needs Information Support

Under the background of the information age, the teaching and research work of higher vocational colleges cannot be separated from information technology, which has penetrated into all aspects of campus life. Higher vocational colleges with advanced information development concepts, solid information infrastructure support, and strong information technology application capabilities often have core competitiveness in development. Informatization construction has become a strategic measure to promote the modernization of higher vocational colleges and universities, and it is an important driving force for higher vocational colleges to implement the fundamental task of establishing morality and improving the ability of science and technology to create and serve society.

2.4 The Impact of the Epidemic Has Further Promoted the Information Governance of Higher Vocational Colleges

The important role of informatization in university governance has been further highlighted in the COVID-19 outbreak. Many higher vocational colleges have promoted informationization to a strategic, fundamental and leading important supporting position. During the epidemic period, all higher vocational colleges adopted new methods such as online teaching, online office and online academic conference to replace the traditional teaching, scientific research and management. Zheng Qinghua believes that the epidemic has brought three major changes to the informatization construction of colleges and universities. First, online education has changed from the exploration of the past and demonstrated by a few people to the new normal and universal. Second, the information literacy of school administrators and teachers and students has been comprehensively improved; The third is to let people's understanding of education informatization from point to point, teaching becomes the superposition of reality and virtual [4].

3 Difficulties in the Application of Information Technology in the Management of Higher Vocational Colleges

3.1 Weak Awareness of Information Management

Due to the inertia of the traditional school management mode for many years, the staff lacks certain information technology knowledge. Some managers are accustomed to traditional management methods, fail to correctly recognize the positive effects of emerging technologies on the management of higher vocational colleges, do not have a good understanding of informatization, and cannot combine emerging information technologies with the actual situation of higher vocational colleges. It restricts the development of information governance in higher vocational colleges.

3.2 Incomplete Information Construction Facilities

Informatization construction needs to improve the corresponding equipment and facilities, but in reality, many higher vocational colleges are unwilling to spend manpower and financial resources in the informatization construction, resulting in insufficient hardware facilities. Only some simple and basic technical equipment and software are introduced. Although these equipment and software assist the school's administrative management work to a certain extent, they have not exerted the substantive effect of information management. Most of the management work is still continue the traditional model. Insufficient database capacity, inability to process information in a timely and effective manner, and other issues have seriously affected the governance level of higher vocational colleges. The construction of information platform is not comprehensive, and the transmission, processing and communication of information are slow. The traditional bureaucratic management is adopted, administrative instructions are conveyed at one level, and people and paper documents are the main means of information transmission, so the efficiency of governance is relatively low.

3.3 Lack of Unified Planning for Informatization Construction

Each department of higher vocational colleges lacks the corresponding information communication and the relevant data is incoherent, which seriously affects the efficiency of information management in higher vocational colleges. In the early stage of development, the management system has not been able to meet the requirements of social education reform and development in a comprehensive and systematic way, and there are many design defects and deficiencies, which make the whole system unable to be timely updated, resulting in low efficiency of higher vocational education management. At the same time, the compatibility of information system among multiple departments in higher vocational colleges is poor, and there is a lack of effective contact and communication system among departments, which results in low efficiency of information transmission and resource sharing among departments in higher vocational colleges, and poor resource allocation [5].

3.4 Lack of Information Management Talents

Informatization construction requires corresponding talents to manage it. However, as far as the current situation is concerned, there is a serious shortage of informatization construction personnel in higher vocational colleges. Some liberal arts personnel who do not understand technology are placed in management positions in the information technology department. The personnel are not strong in professional ability, and they do not have sufficient mastery of big data and communication technology, and cannot be used in practice. The lack of talents in information construction is a serious obstacle Informatization governance of higher vocational colleges [6].

4 Promoting the Path of Informationization Management in Higher Vocational College

We must focus on promoting the modernization of governance technology, adapt to the requirements of the “Internet+” era, actively use modern advanced information technologies such as big data, cloud technology, Internet of Things, and blockchain, and use the construction of smart campuses as a starting point to promote modern advanced information technology and In-depth integration of the governance of higher vocational colleges, and strive to build a new pattern of governance technology informatization in higher vocational colleges where “networked governance”, “big data governance” and “cloud governance” coexist, and promote the governance methods of higher vocational colleges to move from traditional to modern, highlighting the modernization level of governance technology in higher vocational colleges.

4.1 Improve Informatization Construction Mechanism

We should build a large network security informatization work pattern, incorporate the college management information into the overall development plan of the college, and include education informatization funds in the financial budget, establish an informatization leading group, with the school’s top leader as the team leader, and the vice president in charge of informatization as the deputy team leader. The informatization construction expert advisory committee and the informatization construction coordination working group are formed to form a unified leadership of the party committee, the division of labor and coordination of the party and government, The overall work pattern in which all departments actively participate provides organizational guarantee for the development of school informatization [7].

4.2 Unified Planning to Build a Shared Information System

We will promote cross-department, cross-level, cross-field process linkage, open up the “last mile” of serving teachers and students, and realize collaborative governance. In the process of development and application of the management system, a platform for mutual communication and sharing has been established with various colleges and departments in the school, and the corresponding ports are connected. As a result, a unified standard of

information management can be formed in higher vocational colleges, and the required students, school status, teachers' course information and materials can be unified and standardized input and storage, convenient and timely retrieval and browsing, comprehensive resource sharing, and improve the work efficiency of education management information. Building a shared data center of the school, coordinating business management departments, strengthening data quality management, data sharing, can realize the sharing and interworking of structured data of all departments of the school.

4.3 Intensify Investigation, Set up Reasonable Management Process of Higher Vocational Colleges

The information technology department should strengthen the research and communication of various business demand departments, jointly straighten out the data circulation requirements and the full-cycle management process, and investigate the data needs and data problems of each department. According to the requirements and standards of the superior departments and the construction and development of the school, the information technology department should also reasonably set the management process to ensure that the management process can effectively and accurately realize information integration. Combined with scientific management system, process standard, tool standard, etc., we can minimize the contact frequency between clerks and service objects. After the task is integrated, all work steps, work links, work points, precautions, etc. related to the completion of a specific work can be fully integrated. In turn, we create a comprehensive business process.

4.4 Strengthen Training to Improve the Information Skills of Faculty and Staff

According to the actual situation of campus operations and the actual application requirements of big data technology and information management in teaching and scientific research, effective measures have been taken to strengthen the training of faculty and staff according to local conditions, and all management personnel will be given basic training on information technology-related business knowledge on a regular basis. So that all management personnel can continue to accumulate relevant knowledge on the basis of enhancing the awareness of modern science and technology. It enables them to truly feel the positive changes brought about by modern information technology to their management work, and stimulates their initiative to apply cutting-edge technologies. Through organizing faculty and staff to learn practical skills related to the information management system, regularly carrying out skills training and updates, keeping pace with the development of current information, improving the quality and skills of college education management information personnel and better using the internal software of the system to facilitate, we can realize a modern working mode to improve work efficiency and save related resources.

4.5 Build an Information Culture and Strengthen Online Moral Education

In order to effectively improve the information management capabilities of higher vocational colleges, it is necessary to strengthen the promotion of information culture, raise

the awareness of all teachers and students in the era of big data, deeply understand the importance of improving information management capabilities, and form a digital management atmosphere throughout the school. At the same time, because the network, the carrier of information dissemination, is a virtual world, by strengthening the security awareness of campus network center managers, they can uphold a high sense of responsibility and work enthusiasm, and conduct strict supervision and investigation of network security in order to find and prevent the occurrence of network adverse events in time. By strengthening network security publicity on campus, all faculty and students are aware of the harm and consequences of network information leakage.

5 Conclusion

In summary, modernization is inseparable from informatization, and an important symbol of modernization is informatization. In the context of the modernization of the national governance system, the construction of the modernization of the governance of higher vocational colleges is to realize the informatization of governance methods. In a modern society with highly developed network and information technology, The application of information strategy, the construction of information management platform, the maximum integration and use of information data resources, optimize the management process of higher vocational colleges, improve the information management mechanism, improve the level of information management personnel, is an important support for the modernized management of higher vocational colleges.

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